

PDR RID Report

Originator Mike Rackley **Phone No** 286-2220
Organization FOS 510
E Mail Address mike.rackley@gsfc.nasa.gov
Document

| |
|-----------------------|
| RID ID PDR 141 |
| Review CSMS |
| Originator Ref |
| Priority 1 |

| Section | Page | Figure Table |
|---------|------|--------------|
|---------|------|--------------|

| | |
|--|----------------------|
| Category Name Interfaces | Actionee HAIS |
| Sub Category FOS multicast | |
| Subject Availability of CSMS-provided multicasting capabilities | |

Description of Problem or Suggestion:

It is not clear if multicasting capabilities are going to be provided to FOS in time to be used for Build 1 in September 1995. These capabilities are needed soon, well before FOS CDR.

Originator's Recommendation

Determine when FOS needs multicasting capabilities and provide the software (APIs) by that timeframe.

| | |
|--------------------------|---------------------------|
| GSFC Response by: | GSFC Response Date |
|--------------------------|---------------------------|

| | |
|---------------------------------|------------------------------|
| HAIS Response by: Forman | HAIS Schedule 2/10/95 |
|---------------------------------|------------------------------|

| | |
|---------------------------|-----------------------------------|
| HAIS R. E. Winston | HAIS Response Date 2/10/95 |
|---------------------------|-----------------------------------|

CSMS has worked with FOS to understand FOS requirements for multicast and to develop a plan for providing multicast services. The plan prioritizes service / capability delivery to FOS so as to best meet FOS needs for design and development.

- CSMS will continue to evaluate two ways of providing IP-based multicast. These include use of the Reliable Multicast Protocol (RMP), and use of the ISIS Toolkit, a COTs product which consists of a library of APIs to provide distributed services, including multicast. During this process, CSMS will evaluate the maturity of multicast products and potential impacts on the multicast API.
- CSMS will place the highest priority on (1) providing FOS with a multicast API for use by FOS developers in the April timeframe; and (2) ensuring that this API provides for multicast within the EOC at a minimum (since there may be security and/or routing issues associated with multicast outside the EOC, depending on the solution chosen).
- FOS will use the CSMS-provided API as part of its design and development. CSMS will provide assistance to FOS developers in the use of the API.
- CSMS will continue to investigate multicasting to the ISTs across campus LANs. CSMS will also continue to monitor, investigate and test multicast implementations in order to uncover potential issues with existing multicast services, and to determine how to evolve (if necessary) to industry standards.

| | | |
|----------------------|---------------------------|---------------------------|
| Status Closed | Date Closed 3/2/95 | Sponsor desJardins |
|----------------------|---------------------------|---------------------------|

***** Attachment if any *****